

N Kirova

List of Publications by Year in descending order

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48
papers

820
citations

471061

17
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500791

28
g-index

49
all docs

49
docs citations

49
times ranked

610
citing authors

#	ARTICLE	IF	CITATIONS
1	Singlet exciton binding energy in poly(phenylene vinylene). Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13496-13500.	3.3	84
2	Direct Observation of Charge Density Wave Current Conversion by Spatially Resolved Synchrotron X-Ray Studies in NbSe ₃ . Physical Review Letters, 1998, 80, 5631-5634.	2.9	70
3	A systematic theory for optical properties of phenylene-based polymers. Synthetic Metals, 1999, 100, 29-53.	2.1	67
4	Plastic sliding of charge density waves: X-ray space resolved-studies versus theory of current conversion. Physical Review B, 2000, 61, 10640-10650.	1.1	51
5	Self-trapping of electrons at the field-effect junction of a molecular crystal. Physical Review B, 2003, 68, .	1.1	50
6	Insulator-metal transition in Rb ₄ C ₆₀ under pressure from ¹³ C-NMR. Journal of Physics and Chemistry of Solids, 1996, 57, 143-152.	1.9	47
7	Excitations and optical properties of phenylene-based conjugated polymers and oligomers. Optical Materials, 1998, 9, 472-479.	1.7	41
8	Electronic localization in Rb ₄ C ₆₀ from bulk magnetic measurements. Physical Review B, 1995, 51, 3978-3980.	1.1	38
9	Observation of Correlations Up To the Micrometer Scale in Sliding Charge-Density Waves. Physical Review Letters, 2008, 100, 096403.	2.9	38
10	Theory of electronic states and excitations in PPV. Optical Materials, 1998, 9, 465-471.	1.7	28
11	Exciton binding energy in poly(phenylene vinylene). Synthetic Metals, 2001, 125, 93-98.	2.1	27
12	Contact kinetics in conducting polymers. Synthetic Metals, 1996, 76, 229-232.	2.1	26
13	Stability of bipolarons in conjugated polymers. Optical Materials, 1998, 9, 502-506.	1.7	26
14	Creep, Flow, and Phase Slippage Regimes: An Extensive View of the Sliding Charge-Density Wave Revealed by Coherent X-ray Diffraction. Physical Review Letters, 2012, 109, 256402.	2.9	23
15	On the possible superfluidity of bipolarons on the junction surface. Solid State Communications, 1985, 55, 187-191.	0.9	18
16	Stability of bipolarons in conjugated polymers. Synthetic Metals, 1999, 101, 325-326.	2.1	18
17	Electric field induced ionization of the exciton in poly(phenylene vinylene). Synthetic Metals, 2001, 119, 503-506.	2.1	18
18	Optics of polymers in the light of solid state physics. Synthetic Metals, 2001, 125, 129-138.	2.1	16

#	ARTICLE	IF	CITATIONS
19	Field-induced metal diffusion into C60 thin films. <i>Synthetic Metals</i> , 1996, 77, 59-61.	2.1	11
20	Insulator-metal transition in Rb4C60 under pressure: Jahn-Teller theory versus NMR experiments. <i>Synthetic Metals</i> , 1996, 77, 205-208.	2.1	11
21	Field-induced diffusion of gold and related phase transformations in the C60 and C70 fullerenes. <i>Physical Review B</i> , 1999, 59, 16028-16032.	1.1	10
22	Electronic interactions and excitons in conducting polymers. <i>Current Applied Physics</i> , 2004, 4, 473-478.	1.1	8
23	Conjugated polymers at the verge of strongly correlated systems and 1D semiconductors. <i>Synthetic Metals</i> , 2004, 141, 139-147.	2.1	8
24	Modeling of dynamics of field-induced transformations in charge density waves. <i>European Physical Journal: Special Topics</i> , 2013, 222, 1035-1046.	1.2	7
25	From chiral anomaly to two-fluid hydrodynamics for electronic vortices. <i>Annals of Physics</i> , 2019, 403, 184-197.	1.0	7
26	SOLITONS IN CHARGE AND SPIN DENSITY WAVE SYSTEMS. <i>Journal De Physique Colloque</i> , 1983, 44, C3-1525-C3-1530.	0.2	7
27	Contact electrode diffusion into C60 thin films. <i>Synthetic Metals</i> , 1997, 86, 2331-2332.	2.1	6
28	Optical and electrooptical absorption in conducting polymers. <i>Thin Solid Films</i> , 2002, 403-404, 419-424.	0.8	6
29	Junction phenomena for unconventional semiconductors. <i>Current Applied Physics</i> , 2006, 6, 97-102.	1.1	6
30	Appearance of dislocation arrays in moving or strained charge density waves. <i>Physica B: Condensed Matter</i> , 2009, 404, 565-569.	1.3	6
31	The model for optical properties of PPP-type polymers.. <i>Synthetic Metals</i> , 1999, 101, 271-272.	2.1	5
32	Excitations and optical properties of phenylene based polymers. <i>Synthetic Metals</i> , 1999, 101, 188-191.	2.1	5
33	Excitations and optical properties of phenylene based polymers: effects of electric field. <i>Synthetic Metals</i> , 2001, 119, 651-652.	2.1	5
34	Unified theory for optics of conducting polymers. <i>Synthetic Metals</i> , 2003, 135-136, 461-462.	2.1	5
35	Multi-vortex Dynamics in Junctions of Charge Density Waves. <i>Journal of Superconductivity and Novel Magnetism</i> , 2015, 28, 1343-1347.	0.8	5
36	Multi-Fluid Hydrodynamics in Charge Density Waves with Collective, Electronic, and Solitonic Densities and Currents. <i>Journal of Experimental and Theoretical Physics</i> , 2019, 129, 659-668.	0.2	5

#	ARTICLE	IF	CITATIONS
37	Field induced diffusion of gold and related phase transformations in fullerenes C60 and C70. Carbon, 1998, 36, 649-652.	5.4	3
38	Electronic correlations and excitons in conducting polymers. Synthetic Metals, 2005, 152, 313-316.	2.1	2
39	Pinning and depinning process of an incommensurate CDW as revealed by coherent X-ray diffraction. Physica B: Condensed Matter, 2012, 407, 1848-1851.	1.3	2
40	Phase Slips, Dislocations, Half-Integer Vortices, Two-Fluid Hydrodynamics, and the Chiral Anomaly in Charge and Spin Density Waves. Journal of Experimental and Theoretical Physics, 2021, 132, 714-726.	0.2	2
41	Plastic sliding, strained states and current conversion in Density Waves. Synthetic Metals, 1999, 103, 2589-2592.	2.1	1
42	Long-Range and Local Instabilities in Sliding Charge Density Waves. Journal of Superconductivity and Novel Magnetism, 2009, 22, 559-563.	0.8	1
43	Electrons, excitons and insulator-metal phase transition in A4C60 and A2C60. Synthetic Metals, 1997, 86, 2385-2386.	2.1	0
44	Combined topological defects in spin density waves and the NBN generation. Synthetic Metals, 1999, 103, 1831-1832.	2.1	0
45	Fullerenes dissolve gold in a sequence of phase transformations. Synthetic Metals, 1999, 103, 2456-2457.	2.1	0
46	Phase slippage at the interface: normal metal/sliding charge-density wave. Physica B: Condensed Matter, 2000, 280, 317-322.	1.3	0
47	Electronic states at junctions of molecular semiconductors. Journal of Physics and Chemistry of Solids, 2008, 69, 2248-2251.	1.9	0
48	Observation of correlations up to the micrometer scale in sliding charge-density waves. Physica B: Condensed Matter, 2009, 404, 559-561.	1.3	0